X-RAY-COMPUTERIZED TOMOGRAPHIC INSTRUMENT

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Abstract of **JP2001299738**

PROBLEM TO BE SOLVED: To conveniently set especially a fan angle to that other than the maximum fan angle determined by the length of arrangement of an element of a detector based on projection data in the range of 180 deg. + the fan angle. SOLUTION: The radio-computerized tomographic instrument of the present invention is characterized in that a reconstitution apparatus CP wherein, by using an X-ray source for exposing X-rays and an X-ray detector D for detecting the X-rays irradiated from this X-rays source S, based on projection data within 180 deg. + the fan angle collected by scanning a subject to be examined, an image is reconstituted by a half-scan reconstitution method, is provided and an imaginary fan angle 2&Gamma or 2&Gamma ' other than the maximum fan angle &gamma m determined by the length of arrangement of the element of the detector D is set as the fan angle, and the projection data within 180 deg. + the fan angle are weighted based on a weight factor determined by using the imaginary fan angle and the image is reconstituted based on this weighted projection data.